

CLAIMS

The following listing of claims replaces all previous listings of claims in this application.

1. (Currently Amended) A tubing assembly ~~comprising~~ consisting of:
 - conductive, metal corrugated tubing including convolutions of peaks and valleys;
 - a conductive polymer jacket disposed along a length of said corrugated tubing, said conductive polymer jacket forming a conductive path from the jacket to the corrugated tubing, said thermoplastic polymer has a minimum tensile strength of about 4000 psi, a minimum elongation of about 300 %, a minimum flexural modulus of about 25,000 psi and a maximum volume resistivity of about 7×10^4 ohm-cm.
2. (Original) The tubing assembly of claim 1 wherein:
 - said corrugated tubing is annular.
3. (Original) The tubing assembly of claim 1 wherein:
 - said corrugated tubing is helical.
4. (Original) The tubing assembly of claim 1 wherein:
 - said polymer jacket is a thermoplastic polymer.
5. (Original) The tubing assembly of claim 4 wherein:
 - said thermoplastic polymer is a polyether-based polyurethane.
6. (Original) The tubing assembly of claim 4 wherein:
 - said thermoplastic polymer is a polyethylene.
7. – 10. (Canceled)

11. (Original) The tubing assembly of claim 1 wherein:

wherein said conductive polymer jacket substantially fills said valleys and substantially covers said peaks.

12. (Previously Presented) The tubing assembly of claim 1 further comprising:

a metal fitting coupled to said corrugated tubing at an end thereof to form a conductive path between said metal fitting, said corrugated tubing and said conductive jacket.

13. (Previously Presented) A tubing assembly comprising:

conductive, metal corrugated tubing including convolutions of peaks and valleys;

a conductive thermoplastic polymer jacket disposed along a length of said corrugated tubing, said conductive polymer jacket forming a conductive path from said jacket to the corrugated tubing, said thermoplastic polymer has a minimum tensile strength of about 4000 psi, a minimum elongation of about 300 %, a minimum flexural modulus of about 25,000 psi and a maximum volume resistivity of about 7×10^4 ohm-cm; and

a metal fitting coupled to said corrugated tubing at an end thereof to form a conductive path between said metal fitting, said corrugated tubing and said conductive jacket.

14. (New) The tubing assembly of claim 1 wherein:

the conductive polymer jacket has a volume resistivity sufficient to conduct charge from direct or indirect lightning strikes through the conductive polymer jacket to the conductive, metal corrugated tubing.

15. (New) The tubing assembly of claim 13 wherein:

the conductive polymer jacket has a volume resistivity sufficient to conduct charge from direct or indirect lightning strikes through the conductive polymer jacket to the conductive, metal corrugated tubing.